



PCT

RE-RUN

RAW SEQUENCE LISTING

DATE: 09/13/2004

PATENT APPLICATION: US/10/010,000

TIME: 10:11:15

Input Set : A:\PF-0712-USN SEQUENCE LISTINGS.txt

Output Set: N:\CRF4\09132004\J010000.raw

2 <110> APPLICANT: INCYTE GENOMICS, INC.  
3 BANDMAN, Olga  
4 YUE, Henry  
5 LAL, Preeti  
6 TANG, Y. Tom  
7 REDDY, Roopa  
8 BAUGHN, Mariah R.  
9 AZIMZAI, Yalda  
W--> 10 <120> TITLE OF INVENTION: RNA METABOLISM PROTEINS  
W--> 11 <130> FILE REFERENCE: PF-0712 PCT  
W--> 12 <140> CURRENT APPLICATION NUMBER: To Be Assigned  
C--> 13 <141> CURRENT FILING DATE: 2001-12-05  
14 <150> PRIOR APPLICATION NUMBER: 60/139,922  
15 <151> PRIOR FILING DATE: 1999-06-17  
W--> 16 <160> NUMBER OF SEQ ID: 26  
17 <170> SOFTWARE: PERL Program  
W--> 18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 503  
20 <212> TYPE: PRT  
21 <213> ORGANISM: Homo sapiens  
W--> 22 <220> FEATURE:  
23 <221> NAME/KEY: misc\_feature  
24 <223> OTHER INFORMATION: Incyte Clone No: 046926  
W--> 25 <400> SEQUENCE: 1  
26 Met Glu Tyr Met Ala Glu Ser Thr Asp Arg Ser Pro Gly His Ile  
27 1 5 10 15  
28 Leu Cys Cys Glu Cys Gly Val Pro Ile Ser Pro Asn Pro Ala Asn  
29 20 25 30  
30 Ile Cys Val Ala Cys Leu Arg Ser Lys Val Asp Ile Ser Gln Gly  
31 35 40 45  
32 Ile Pro Lys Gln Val Ser Ile Ser Phe Cys Lys Gln Cys Gln Arg  
33 50 55 60  
34 Tyr Phe Gln Pro Pro Gly Thr Trp Ile Gln Cys Ala Leu Glu Ser  
35 65 70 75  
36 Arg Glu Leu Leu Ala Leu Cys Leu Lys Lys Ile Lys Ala Pro Leu  
37 80 85 90  
38 Ser Lys Val Arg Leu Val Asp Ala Gly Phe Val Trp Thr Glu Pro  
39 95 100 105  
40 His Ser Lys Arg Leu Lys Val Lys Leu Thr Ile Gln Lys Glu Val  
41 110 115 120  
42 Met Asn Gly Ala Ile Leu Gln Gln Val Phe Val Val Asp Tyr Val  
43 125 130 135  
44 Val Gln Ser Gln Met Cys Gly Asp Cys His Arg Val Glu Ala Lys

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45		140		145		150
46	Asp Phe Trp Lys	Ala Val Ile Gln Val	Arg Gln Lys Thr Leu	His		
47		155		160		165
48	Lys Lys Thr Phe	Tyr Tyr Leu Glu Gln	Leu Ile Leu Lys Tyr	Gly		
49		170		175		180
50	Met His Gln Asn	Thr Leu Arg Ile Lys	Glu Ile His Asp Gly	Leu		
51		185		190		195
52	Asp Phe Tyr Tyr	Ser Ser Lys Gln His	Ala Gln Lys Met Val	Glu		
53		200		205		210
54	Phe Leu Gln Cys	Thr Val Pro Cys Arg	Tyr Lys Ala Ser Gln	Arg		
55		215		220		225
56	Leu Ile Ser Gln	Asp Ile His Ser Asn	Thr Tyr Asn Tyr Lys	Ser		
57		230		235		240
58	Thr Phe Ser Val	Glu Ile Val Pro Ile	Cys Lys Asp Asn Val	Val		
59		245		250		255
60	Cys Leu Ser Pro	Lys Leu Ala Gln Ser	Leu Gly Asn Met Asn	Gln		
61		260		265		270
62	Ile Cys Val Cys	Ile Arg Val Thr Ser	Ala Ile His Leu Ile	Asp		
63		275		280		285
64	Pro Asn Thr Leu	Gln Val Ala Asp Ile	Asp Gly Ser Thr Phe	Trp		
65		290		295		300
66	Ser His Pro Phe	Asn Ser Leu Cys His	Pro Lys Gln Leu Glu	Glu		
67		305		310		315
68	Phe Ile Val Met	Glu Cys Ser Ile Val	Gln Asp Ile Lys Arg	Ala		
69		320		325		330
70	Ala Gly Ala Gly	Met Ile Ser Lys Lys	His Thr Leu Gly Glu	Val		
71		335		340		345
72	Trp Val Gln Lys	Thr Ser Glu Met Asn	Thr Asp Lys Gln Tyr	Phe		
73		350		355		360
74	Cys Arg Thr His	Leu Gly His Leu Leu	Asn Pro Gly Asp Leu	Val		
75		365		370		375
76	Leu Gly Phe Asp	Leu Ala Asn Cys Asn	Leu Asn Asp Glu His	Val		
77		380		385		390
78	Asn Lys Met Asn	Ser Asp Arg Val Pro	Asp Val Val Leu Ile	Lys		
79		395		400		405
80	Lys Ser Tyr Asp	Arg Thr Lys Arg Gln	Arg Arg Arg Asn Trp	Lys		
81		410		415		420
82	Leu Lys Glu Leu	Ala Arg Glu Arg Glu	Asn Met Asp Thr Asp	Asp		
83		425		430		435
84	Glu Arg Gln Tyr	Gln Asp Phe Leu Glu	Asp Leu Glu Glu Asp	Glu		
85		440		445		450
86	Ala Ile Arg Lys	Asn Val Asn Ile Tyr	Arg Asp Ser Ala Ile	Pro		
87		455		460		465
88	Val Glu Ser Asp	Thr Asp Asp Glu Gly	Ala Pro Arg Ile Ser	Leu		
89		470		475		480
90	Ala Glu Met Leu	Glu Asp Leu His Ile	Ser Gln Asp Ala Thr	Gly		
91		485		490		495
92	Glu Glu Gly Ala	Ser Met Leu Thr				
93		500				

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94 <210> SEQ ID NO: 2  
95 <211> LENGTH: 594  
96 <212> TYPE: PRT  
97 <213> ORGANISM: Homo sapiens  
W--> 98 <220> FEATURE:  
99 <221> NAME/KEY: misc\_feature  
100 <223> OTHER INFORMATION: Incyte Clone No: 618791  
W--> 101 <400> SEQUENCE: 2

102	Met	Ser	Ala	Gly	Glu	Val	Glu	Arg	Leu	Val	Ser	Glu	Leu	Ser	Gly	
103	1				5					10						15
104	Gly	Thr	Gly	Gly	Asp	Glu	Glu	Glu	Glu	Trp	Leu	Tyr	Gly	Gly	Pro	
105					20					25						30
106	Trp	Asp	Val	His	Val	His	Ser	Asp	Leu	Ala	Lys	Asp	Leu	Asp	Glu	
107					35					40						45
108	Asn	Glu	Val	Glu	Arg	Pro	Glu	Glu	Glu	Asn	Ala	Ser	Ala	Asn	Pro	
109					50					55						60
110	Pro	Ser	Gly	Ile	Glu	Asp	Glu	Thr	Ala	Glu	Asn	Gly	Val	Pro	Lys	
111					65					70						75
112	Pro	Lys	Val	Thr	Glu	Thr	Glu	Asp	Asp	Ser	Asp	Ser	Asp	Ser	Asp	
113					80					85						90
114	Asp	Asp	Glu	Asp	Asp	Val	His	Val	Thr	Ile	Gly	Asp	Ile	Lys	Thr	
115					95					100						105
116	Gly	Ala	Pro	Gln	Tyr	Gly	Ser	Tyr	Gly	Thr	Ala	Pro	Val	Asn	Leu	
117					110					115						120
118	Asn	Ile	Lys	Thr	Gly	Gly	Arg	Val	Tyr	Gly	Thr	Thr	Gly	Thr	Lys	
119					125					130						135
120	Val	Lys	Gly	Val	Asp	Leu	Asp	Ala	Pro	Gly	Ser	Ile	Asn	Gly	Val	
121					140					145						150
122	Pro	Leu	Leu	Glu	Val	Asp	Leu	Asp	Ser	Phe	Glu	Asp	Lys	Pro	Trp	
123					155					160						165
124	Arg	Lys	Pro	Gly	Ala	Asp	Leu	Ser	Asp	Tyr	Phe	Asn	Tyr	Gly	Phe	
125					170					175						180
126	Asn	Glu	Asp	Thr	Trp	Lys	Ala	Tyr	Cys	Glu	Lys	Gln	Lys	Arg	Ile	
127					185					190						195
128	Arg	Met	Gly	Leu	Glu	Val	Ile	Pro	Val	Thr	Ser	Thr	Thr	Asn	Lys	
129					200					205						210
130	Ile	Thr	Ala	Glu	Asp	Cys	Thr	Met	Glu	Val	Thr	Pro	Gly	Ala	Glu	
131					215					220						225
132	Ile	Gln	Asp	Gly	Arg	Phe	Asn	Leu	Phe	Lys	Val	Gln	Gln	Gly	Arg	
133					230					235						240
134	Thr	Gly	Asn	Ser	Glu	Lys	Glu	Thr	Ala	Leu	Pro	Ser	Thr	Lys	Ala	
135					245					250						255
136	Glu	Phe	Thr	Ser	Pro	Pro	Ser	Leu	Phe	Lys	Thr	Gly	Leu	Pro	Pro	
137					260					265						270
138	Ser	Arg	Asn	Ser	Thr	Ser	Ser	Gln	Ser	Gln	Thr	Ser	Thr	Ala	Ser	
139					275					280						285
140	Arg	Lys	Ala	Asn	Ser	Ser	Val	Gly	Lys	Trp	Gln	Asp	Arg	Tyr	Gly	
141					290					295						300
142	Arg	Ala	Glu	Ser	Pro	Asp	Leu	Arg	Arg	Leu	Pro	Gly	Ala	Ile	Asp	

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```
143          305          310          315
144 Val Ile Gly Gln Thr Ile Thr Ile Ser Arg Val Glu Gly Arg Arg
145          320          325          330
146 Arg Ala Asn Glu Asn Ser Asn Ile Gln Val Leu Ser Glu Arg Ser
147          335          340          345
148 Ala Thr Glu Val Asp Asn Asn Phe Ser Lys Pro Pro Pro Phe Phe
149          350          355          360
150 Pro Pro Gly Ala Pro Pro Thr His Leu Pro Pro Pro Pro Phe Leu
151          365          370          375
152 Pro Pro Pro Pro Thr Val Ser Thr Ala Pro Pro Leu Ile Pro Pro
153          380          385          390
154 Pro Gly Phe Pro Pro Pro Pro Gly Ala Pro Pro Pro Ser Leu Ile
155          395          400          405
156 Pro Thr Ile Glu Ser Gly His Ser Ser Gly Tyr Asp Ser Arg Ser
157          410          415          420
158 Ala Arg Ala Phe Pro Tyr Gly Asn Val Ala Phe Pro His Leu Pro
159          425          430          435
160 Gly Ser Ala Pro Ser Trp Pro Ser Leu Val Asp Thr Ser Lys Gln
161          440          445          450
162 Trp Asp Tyr Tyr Ala Arg Arg Glu Lys Asp Arg Asp Arg Glu Arg
163          455          460          465
164 Asp Arg Asp Arg Glu Arg Asp Arg Asp Arg Asp Arg Glu Arg Glu
165          470          475          480
166 Arg Thr Arg Glu Arg Glu Arg Glu Arg Asp His Ser Pro Thr Pro
167          485          490          495
168 Ser Val Phe Asn Ser Asp Glu Glu Arg Tyr Arg Tyr Arg Glu Tyr
169          500          505          510
170 Ala Glu Arg Gly Tyr Glu Arg His Arg Ala Ser Arg Glu Lys Glu
171          515          520          525
172 Glu Arg His Arg Glu Arg Arg His Arg Glu Lys Glu Glu Thr Arg
173          530          535          540
174 His Lys Ser Ser Arg Ser Asn Ser Arg Arg Arg His Glu Ser Glu
175          545          550          555
176 Glu Gly Asp Ser His Arg Arg His Lys His Lys Lys Ser Lys Arg
177          560          565          570
178 Ser Lys Glu Gly Tyr Glu Ala Gly Ser Glu Pro Ala Pro Glu Gln
179          575          580          585
180 Glu Ser Thr Glu Ala Thr Pro Ala Glu
181          590
182 <210> SEQ ID NO: 3
183 <211> LENGTH: 413
184 <212> TYPE: PRT
185 <213> ORGANISM: Homo sapiens
W--> 186 <220> FEATURE:
187 <221> NAME/KEY: 1.0 feature
188 <223> OTHER INFORMATION: Incyte Clone No: 1240366
W--> 189 <400> SEQUENCE:
190 Met Ser Glu Thr Gln Tyr Ser Ser Leu Thr Gln Thr Leu Ile Met
191 1 5 10 15
```

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192	Thr	Met	Lys	Leu	Ser	Gly	Phe	Gly	Val	Ala	Asp	Ser	Met	Arg	Ile
193				20						25					30
194	Ser	Gly	Cys	Ser	Ile	Gln	Lys	Gln	Ser	Arg	Ile	Ile	Ile	Thr	Asp
195				35						40					45
196	Arg	Gln	Ala	Glu	Pro	Pro	Lys	Lys	Glu	Ala	Ala	Thr	Thr	Gly	Pro
197				50						55					60
198	Gln	Val	Lys	Arg	Ala	Asp	Glu	Trp	Lys	Asp	Pro	Trp	Arg	Arg	Ser
199				65						70					75
200	Lys	Ser	Pro	Lys	Lys	Lys	Leu	Gly	Val	Ser	Val	Ser	Pro	Ser	Arg
201				80						85					90
202	Ala	Arg	Arg	Arg	Arg	Lys	Thr	Ser	Ala	Ser	Ser	Ala	Ser	Ala	Ser
203				95						100					105
204	Asn	Ser	Ser	Arg	Ser	Ser	Ser	Arg	Ser	Ser	Ser	Tyr	Ser	Gly	Ser
205				110						115					120
206	Gly	Ser	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Ser	Ser	Tyr	Ser	Ser	Tyr
207				125						130					135
208	Ser	Ser	Arg	Ser	Ser	Arg	His	Ser	Ser	Phe	Ser	Gly	Ser	Arg	Ser
209				140						145					150
210	Arg	Ser	Arg	Ser	Phe	Ser	Ser	Ser	Pro	Ser	Pro	Ser	Pro	Thr	Pro
211				155						160					165
212	Ser	Pro	His	Arg	Pro	Ser	Ile	Arg	Thr	Lys	Gly	Glu	Pro	Ala	Pro
213				170						175					180
214	Pro	Pro	Gly	Lys	Ala	Gly	Glu	Lys	Ser	Val	Lys	Lys	Pro	Ala	Pro
215				185						190					195
216	Pro	Pro	Ala	Pro	Pro	Gln	Ala	Thr	Lys	Thr	Thr	Ala	Pro	Val	Pro
217				200						205					210
218	Glu	Pro	Thr	Lys	Pro	Gly	Asp	Pro	Arg	Glu	Ala	Arg	Arg	Lys	Glu
219				215						220					225
220	Arg	Pro	Ala	Arg	Thr	Pro	Pro	Arg	Arg	Arg	Thr	Leu	Ser	Gly	Ser
221				230						235					240
222	Gly	Ser	Gly	Ser	Gly	Ser	Ser	Tyr	Ser	Gly	Ser	Ser	Ser	Arg	Ser
223				245						250					255
224	Arg	Ser	Leu	Ser	Val	Ser	Ser	Val	Ser	Ser	Val	Ser	Ser	Ala	Thr
225				260						265					270
226	Ser	Ser	Ser	Ser	Ser	Ala	His	Ser	Val	Asp	Ser	Glu	Asp	Met	Tyr
227				275						280					285
228	Ala	Asp	Leu	Ala	Ser	Pro	Val	Ser	Ser	Ala	Ser	Ser	Arg	Ser	Pro
229				290						295					300
230	Ala	Pro	Ala	Gln	Thr	Arg	Lys	Glu	Lys	Gly	Lys	Ser	Lys	Lys	Glu
231				305						310					315
232	Asp	Gly	Val	Lys	Glu	Glu	Lys	Arg	Lys	Arg	Asp	Ser	Ser	Thr	Gln
233				320						325					330
234	Pro	Pro	Lys	Ser	Ala	Lys	Pro	Pro	Ala	Gly	Gly	Lys	Ser	Ser	Gln
235				335						340					345
236	Gln	Pro	Ser	Thr	Pro	Gln	Gln	Ala	Pro	Pro	Gly	Gln	Pro	Gln	Gln
237				350						355					360
238	Gly	Thr	Phe	Val	Ala	His	Lys	Glu	Ile	Lys	Leu	Thr	Leu	Leu	Asn
239				365						370					375
240	Lys	Ala	Ala	Asp	Lys	Gly	Ser	Arg	Lys	Arg	Tyr	Glu	Pro	Ser	Asp

## VERIFICATION SUMMARY

DATE: 09/13/2004

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TIME: 10:11:16

Input File: A:\PF-0712-USN SEQUENCE LISTINGS.txt

Output File: N:\CRF4\09132004\J010000.raw

L:10 M:283 W: Missing Blank line separator, <120> field identifier  
L:11 M:283 W: Missing Blank line separator, <130> field identifier  
L:12 M:283 W: Missing Blank line separator, <140> field identifier  
L:12 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:16 M:283 W: Missing Blank line separator, <160> field identifier  
L:18 M:283 W: Missing Blank line separator, <210> field identifier  
L:22 M:283 W: Missing Blank line separator, <220> field identifier  
L:25 M:283 W: Missing Blank line separator, <400> field identifier  
L:98 M:283 W: Missing Blank line separator, <220> field identifier  
L:101 M:283 W: Missing Blank line separator, <400> field identifier  
L:186 M:283 W: Missing Blank line separator, <220> field identifier  
L:189 M:283 W: Missing Blank line separator, <400> field identifier  
L:250 M:283 W: Missing Blank line separator, <220> field identifier  
L:253 M:283 W: Missing Blank line separator, <400> field identifier  
L:288 M:283 W: Missing Blank line separator, <220> field identifier  
L:291 M:283 W: Missing Blank line separator, <400> field identifier  
L:382 M:283 W: Missing Blank line separator, <220> field identifier  
L:385 M:283 W: Missing Blank line separator, <400> field identifier  
L:411 M:283 W: Missing Blank line separator, <220> field identifier  
L:414 M:283 W: Missing Blank line separator, <400> field identifier  
L:445 M:283 W: Missing Blank line separator, <220> field identifier  
L:448 M:283 W: Missing Blank line separator, <400> field identifier  
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L:540 M:283 W: Missing Blank line separator, <400> field identifier  
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L:608 M:283 W: Missing Blank line separator, <400> field identifier  
L:651 M:283 W: Missing Blank line separator, <220> field identifier  
L:654 M:283 W: Missing Blank line separator, <400> field identifier  
L:677 M:283 W: Missing Blank line separator, <220> field identifier  
L:680 M:283 W: Missing Blank line separator, <400> field identifier  
L:716 M:283 W: Missing Blank line separator, <220> field identifier  
L:719 M:283 W: Missing Blank line separator, <400> field identifier  
L:764 M:283 W: Missing Blank line separator, <220> field identifier  
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L:855 M:283 W: Missing Blank line separator, <220> field identifier  
L:858 M:283 W: Missing Blank line separator, <400> field identifier  
L:886 M:283 W: Missing Blank line separator, <220> field identifier  
L:889 M:283 W: Missing Blank line separator, <400> field identifier  
L:917 M:283 W: Missing Blank line separator, <220> field identifier  
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L:971 M:283 W: Missing Blank line separator, <220> field identifier  
L:974 M:283 W: Missing Blank line separator, <400> field identifier  
L:991 M:283 W: Missing Blank line separator, <220> field identifier  
L:994 M:283 W: Missing Blank line separator, <400> field identifier  
L:1015 M:283 W: Missing Blank line separator, <220> field identifier

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DATE: 09/13/2004

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TIME: 10:11:16

Input S : A:\PF-0712-USN SEQUENCE LISTINGS.txt

Output S : N:\CRF4\09132004\J010000.raw

L:1018 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1064 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1067 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1102 M:283 W: Missing Blank Line separator, <220> field identifier

file://C:\CRF4\OUTHOLD\VsrJ010000.htm

9/13/04

PAGE 8/8 \* RCVD AT 9/13/2004 10:30:50 AM [Eastern Daylight Time] \* SVR:USPTO-EFXXRF-2/2 \* DNIS:7466695 \* CSID:703 308 4221 \* DURATION (mm-ss):03-30

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